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JAN 24 2008

AMENDMENTS TO THE CLAIMS

Please amend claim 1.

Please cancel claim 27.

Please add new claims 30-36.

This listing of claims will replace all versions, and listings, of claims in the application.

Listing of Claims

1-21. (Canceled)

22. (Currently Amended) A method for in vivo detection of H. pylori, the method comprising:

inserting an autonomous in vivo sensing device into an upper gastrointestinal tract;

sensing pH in at least one location ~~proximate to a patient's stomach mucus~~ in the upper gastrointestinal tract using said autonomous in vivo device; and

transmitting ~~by radio frequency~~ pH data to an external receiving unit.

23. (Original) The method according to claim 22, further comprising indicating a pH value which is about equal to or exceeds a predetermined threshold.

24. (Original) The method according to claim 22, wherein sensing pH is by imaging a color changing pH indicator.

25. (Previously Presented) The method according to claim 23, wherein the pH value is about 5.5.

26-29. (Canceled)

30. (New) The method according to claim 22, further comprising imaging the gastrointestinal tract using said autonomous in vivo device.

31. (New) The method according to claim 30, wherein the step of transmitting pH data further comprises transmitting image data.

32. (New) The method according to claim 22, further comprising ingesting urea prior to inserting the autonomous in vivo device.

33. (New) The method according to claim 22, further comprising the step of indicating a pH change which is about equal to or exceeds a predetermined threshold.

34. (New) The method according to claim 22, further comprising the step of causing the autonomous in vivo device to contact at least one location of a stomach mucus.

35. (New) The method according to claim 34, wherein causing the autonomous in vivo device to contact at least one location of a stomach mucus is by positioning a patient to achieve substantially covering of the patient's stomach.

36. (New) A method according to claim 22, wherein transmitting is by radio frequency.